深圳市劲宇电子有限公司

Shenzhen Jinyu Electronics Co., Ltd

承　　认　　书
Specifications For Approval

Customer Model		Part No.	
Jinyu Model	贴片针座系列	Part No.	A2002FW-xxP-WT-203

Approved by Jinyu		
Approved by	Checked by	Prepared by
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Approved by Customer	
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Remark:
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2:If customer issue purchase orders without confirmation by signature of this specification after receipt,such confirmation will be considered as granted upon receipt of the first purchase order.

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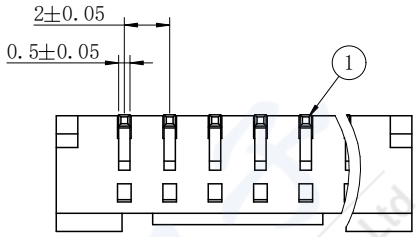
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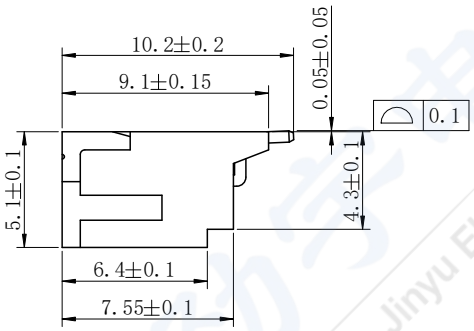
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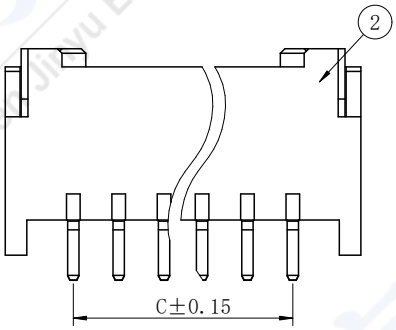
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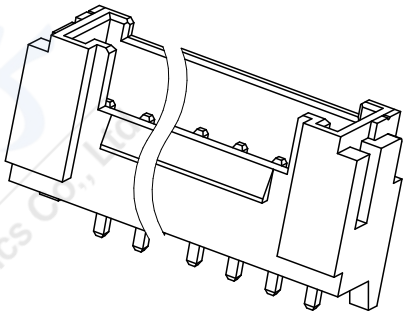
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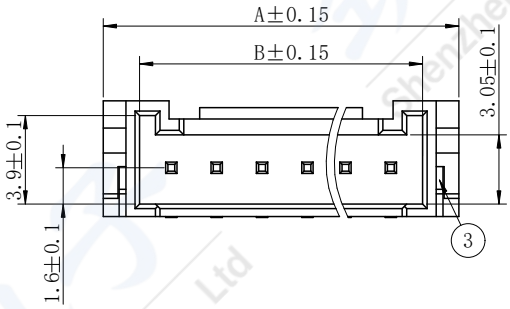
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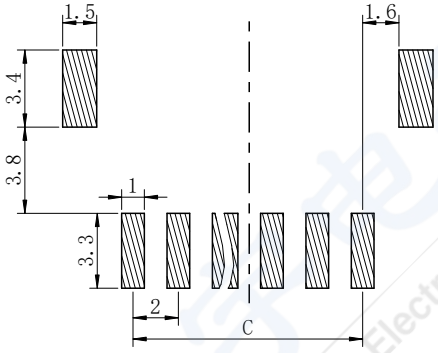












焊接图

Pin数	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
B	4.8	6.8	8.8	10.8	12.8	14.8	16.8	18.8	20.8	22.8	24.8	26.8	28.8	30.8	32.8
C	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30

技术要求(SPECIFICATION):
1.额定电压(Rated Voltage):250V AC/DC
2.额定电流(Current Rating):3.0A AC/DC

未注尺寸公差(mm):
00-10: ±0.2mm, 11-25: ±0.3mm, 26-50: ±0.4mm

No.	NAME	MATERIAL	QTY.	FINISHING
3	焊片	BRASS	1	Sn-P
2	底座	LCP	1	ECRU
1	端子	BRASS	1	Sn-P

一、一般特性（General Characteristics）

1.1 适用范围：连接器系列

Application: The connector series.

1.2 使用温度范围.....-25℃～+85℃

Operating Temperature Range.....-25℃～+85℃

1.3 相对湿度.....≤85%

Operating Relative Humidity.....≤85%

1.4 实验条件：若没有特别说明，则试验大气条件如下：

Test Conditions: Unless otherwise specified, the atmospheric conditions for making measurements and tests are as follows:

1.4.1 环境温度.....5~35℃

Ambient Temperature.....5~35℃

1.4.2 相对湿度.....45~85%

Relative Humidity.....45~85%

1.4.3 大气压力.....86~106Kpa (860~106mbar)

Air Pressure:.....86~106Kpa (860~106mbar)

二、外观，结构及尺寸（Appearance, Structure and Dimensions）

2.1 外观：产品外观良好，无锈蚀、裂纹和镀层缺陷。

Appearance: The product shall have good finishing, and no rust, crack or plating defects.

2.2 结构及尺寸：参见产品图纸。

Structure & Dimensions: Refer to individual product drawing.

2.3 互换性：相同规格应能互换。

Exchangable:Exchangable with same specification products.

三、额定负荷（Ratings）

详见 2 页产品图纸

四、电气特性 Electrical Characteristics

No.	项目 Item	标准 Criteria	实验方法 Test Method
4.1	接触电阻 Contact Resistance	初始值≤20mΩ Initial value less than 20mΩ.	组合状态下的连接器，两端施以最大测试电压 20 mV 以及最大测试电流 100 mA，不包含电线阻抗。 A maximum voltage of 20mV and a maximum current of 100mA are applied to the Mate connector ,Does not include wire resistance.
4.2	绝缘电阻 Insulation Resistance	100MΩ Min.	在相互绝缘的所有端子之间及各接线端子与外露的非载流金属零件之间加载 500V 直流电，持续时间 60±5S。 500VDC voltage is applied between each pair of terminals and between the terminal and the metal frame for 60±5S.
4.3	耐压强度 Dielectric withstand in voltage	无击穿现象发生。 No dielectric breakdown shall occur.	在相互绝缘的所有接线端子之间 及各接线端子与外壳或非载流金属零件之间加载 500V(有效值)交流电，持续时间 60±5S。 500VAC (RMS) is applied between non-connected terminals and between terminals and the metal frame for 60 ±5s.

五、 机械特性（Mechanical Characteristics ）

No.	Item 项目	Criteria 标准	Test Method 实验方法
5.1	端子压接导线强度 Terminal crimping wire strength	More than 6N ≥6N	端子压接线，每分钟轴向拉力不超过 25±3mm。 Terminal crimping wires, axial per minute to 25 ± 3mm rate of the pullout force .
5.2	端子与孔座固定力 Fixed terminals and hole seat	单一接触点 Per contact More than 8N ≥8N	端子与孔座配合，以每分钟 25±3mm 的速率沿导线方向将端子从孔座中拔出的力。 The terminal and the hole seat, at a rate per minute to 25 ± 3mm along the wire direction are pulled out from the hole in the seat capacity.
5.3	单接触插入力 Singlecontact insertion force	Less than 3N ≤3N	孔座连同端子与针座两端互配，以每分钟 25±3mm 的速率，作插入力测试 。 The Housing together with the terminal ends with Wafer matched, at a rate per minute to 25 ± 3mm, inserting force test .
5.4	单接触拔出力 Single contact withdrawal force	More than 0.3N ≥0.3N	孔座连同端子与针座两端互配，以每分钟 25±3mm 的速率，作拔出力测试。 The Housing together with the terminal ends with Wafer matched, at a rate per minute to 25 ± 3mm, as the pull-out test .
5.5	PIN 针固定力 Pin Retention force	单一接触点 Per contact More than 10N ≥10N	在针脚前端施加力，以每分钟 25±3mm 的速率，直到针退出针座的拔出力。 Exerts a force on the pin end, at a rate per minute 25 ± 3mm, until the needle exit seat pull-out force .
5.6	振动 Vibration Proof	外观：无损伤 Appearance：No damage 接触电阻≤30 mΩ Contact Resistance ≤ 30 mΩ 电流中断：1 μ sec Max current Discontinuity：1 micro second Max	组合状态下的连接器焊接电路板上作为试验样品，依照如下规格要求，进行耐振动试验，试验过程中确定是否产生不连续电流（断电）现象，试验过后测量接触电阻值。 Connector combination state of the welding circuit board as test samples, the request in accordance with the following specifications, resistance to vibration test, whether to produce discontinuous current determined during the experiment (off) phenomenon, after the experiment measuring contact resistance . 1. 频率(Frequency):10-55-10 Hz/minute 2. 振幅(Amplitude):1.5mm p-p 3. 方向(Direction): 3.1 上下轴向(Y 轴) Axis of up and down 3.2 左右轴向(X 轴) Axis of right the left 3.3 前后轴向(Z 轴) Axis of front and back 4. 周期:每一个轴向持续 2 小时 Period：2 hous for each direction

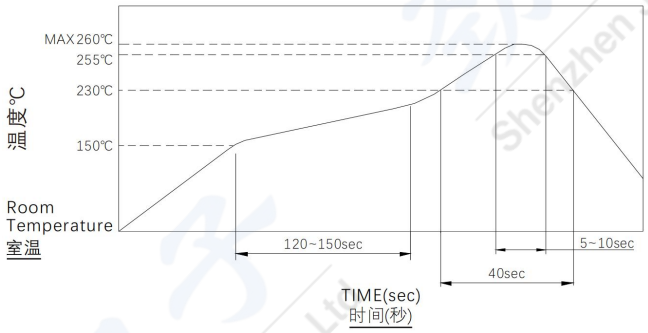
六、耐久性能（Durability characteristics）

No.	项目 Item	标准 Criteria	实验方法 Test Method
6.1	耐久性 Durability	接触电阻≤30 mΩ Contact Resistance ≤30 mΩ	组合状态下的连接器且未经环境测试，每分钟内 进行 10 次嵌入与拔出，连续 30 次嵌入与拔出往返测试。 Mate connectors up 30 cycles at a Maximun rate of 10 cycles per minute prior toenvironmental test .

七、 耐候性能（Weather Proof Characteristics）

No.	项目 Item	标准 Criteria	实验方法 Test Method
7.1	高温老化试验 Thermal Aging	外观：无损伤 Appearance：No damage 接触电阻≤30 mΩ Contact Resistance ≤ 30 mΩ	组合状态下的连接器放置于加热烤箱中，依照如下规格要求，进行高温老化试验，试验后并测量接触电阻值。 Connector combination condition is placed in the oven, the request in accordance with the following specifications, high temperature aging test, after the test and measurement of contact resistance . 1. 温度：85± 2 ℃ Temperature:85± 2 ℃ 2. 周期：持续 96 小时 Period:96 hours continuously
7.2	温升 Temperature	30℃ Max	组合状态下的连接器，通过最大容许电流测量导体温度上升值。 Mate connector measure the temperature rise of contact when the maximum rated current is passed .
7.3	恒定潮湿 Humidity	外观：无损伤 Appearance：No damage 接触电阻：≤30 mΩ Contact Resistance：≤30mΩ 绝缘电阻：≥50MΩ Insulation Resistance：≥50MΩ 无击穿或者产生火花 No breakdown or flashover	组合状态下的连接器放置恒定温度的湿气空间，依照如下规格要求，进行恒温恒湿试验，试验过后测量接触电阻、绝缘电阻以及耐电压测试。 Connector combination under the condition of constant temperature and humidity place space, in accordance with the requirements of the following specifications, constant temperature and humidity test, after the experiment measuring contact resistance, insulation resistance and withstand voltage test . 1. 温度:40±2℃ Temperature: 40 ± 2 ℃ 2. 相对湿度:90-95% Relative humidity:90-95%RH 3. 周期：持续 96 小时 Period:96 hours continuously
7.4	温度循环 Temperature cycling		组合状态下的连接器作为试验样品，依照如下规格要求，进行冷热冲击试验，试验后测量接触电阻、绝缘电阻、以及耐电压测试。 The combined state of connectors as test samples, in accordance with the requirements of the following specifications, thermal shock test, after the test measuring contact resistance, insulation resistance, and resistance to voltage . 一个循环周期由以下组成： One cycle consists of: 1. -55±3℃,30 分钟，放置转换时间 10-15 分钟 -55±3℃,30min,Room temp.10-15 min 2. 85±3℃,30 分钟，放置转换时间 10-15 分钟 85±3℃,30min,Room temp.10-15 min 3. 循环次数：5 次 Total cycle：5 cycle

7.5	盐雾 Salt spray	外观：无损伤 Appearance：No damage 接触电阻：≤30 mΩ Contact Resistance：≤30mΩ	组合状态下的连接器作为试验样品，依照如下规格要求进行盐水喷雾试验，试验后将样品用清水冲干净自然晾干，测量接触电阻值。 The combined state of connector as test samples, salt spray test according to the following specifications, test samples will be clean again with the water to dry naturally, measurement of contact resistance . 1. 温度：35±3℃ Temperature：35±3℃ 2. 浓度：5±1% Solution：5±1% 3. 周期： Period： 3.1 先电镀后冲压 8 小时 Stamping after tin plated for 8 hours 3.2 先冲压后电镀 48 小时 Stamping before tin plated for 48 hours
八、焊接条件（SOLDERING CONDITIONS）			
8.1	可焊性 Solder ability	焊锡面积：≥90% Area of Soldering：≥ 90%	放置锡炉中依照如下规格进行焊锡试验: In accordance with the following specifications were placed tin soldering test: 1. 焊锡温度：245±5℃ Solder Temperature:245±5℃ 2. 沉浸周期：3±0.5S Immersion period:3±0.5S
8.2	耐焊接热 Solder Heat Resistance	无外观及功能损坏。 无功能性不良。 No abnormalities shall be observed in appearance and operation.No functional defective occur	试件在下述参数条件下进行试验： Sample shall be measured after following test: 1. 焊料：H63A （JIS Z 3282） Solder: H63A (JIS Z3282) 2. 焊剂：焊剂，质量百分比为 25%松香，75%甲醇的无色透明溶液。 Flux: Rosin Flux having a nominal composition of 25% solids by mass of water white rosin in methyl alcohol (JIS K 1501) solution. 3. 焊接温度及浸渍时间： Soldering Temperature & Immersing Time: 3.1 自动焊接：260± 5℃；5±1s Dip Soldering:260±5° C；5±1s 3.2 手工焊接：300±5℃；2~3s Manual Soldering 300±5° C；2~3s 4. 浸渍深度：（对于手动焊接） Immersion Depth: (For Dip Soldering) 接线端应浸到镀铜层处（PCB 厚度等于 1.6mm） Immersion depth shall be at copper plating portion of PCB after mounting.(Thickness of PCB=1.6mm)

8.3	回流焊接 Conditions for reflow		对于 SMT 产品，请按以下条件进行焊接： For SMT products. Pls soldering by follow condition: 注意：以上提及的条件是零部件上 PCB 表面的温度，由于 PCB 的材料、尺寸、厚度等不同 PCB 从产品表面获得的温度也会有很大产不同，因此，千万小心不要让产品表面温度超过 260℃。 Attention:the condition above is thet emperature of the PCB surface on the parts.and PCB will get different temperature because of the differences of materials,sizes,thickness and soon.Should Control it below 260℃ . 

九、注意事项（Caution）

1. 印刷基板的焊盘尺寸参见产品图。
   The pad size of the printed substrate is shown in the product diagram.
2. 在使用烙铁的情况下，焊锡温度应在 350℃以下、3 秒以内。
   In the case of using soldering iron, soldering conditions shall be 350℃ max and 3 sec.max.
3. 防止助焊剂从产品的顶端渗入。
   Prevent flux penetration from the top of the product.
4. 产品浸焊后，注意不要用溶剂或类似品清洗产品。
   After products were soldered,please be careful not to clean products with solvent or other similar products.
5. 浸焊后，注意不要在顶部施加负荷。
   Right after products were soldered;please be careful not to load to on the knobs of products.
6. 注意不要施加超负荷的压力或晃动产品。
   Please be cautions not to give excessive static load or shock to products.
7. 产品浸焊后，印刷基板注意不要叠放。
   Please be careful not to pile up PCB after product s were soldered